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## Abstract for the Colloquium 2014 December 12

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I show that it is always possible to find  $n$  points in the  $d$ -dimensional faces of an  $nd$ -dimensional convex polytope  $P$  so that their center of mass is a target point in  $P$ . Equivalently, the  $n$ -fold Minkowski sum of the polytope's  $d$ -skeleton is the polytope  $P$  scaled by  $n$ . This verifies a conjecture by Takeshi Tokuyama.

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Last update: **2020/01/29 19:03**